

Nemko EESI, Inc.		11696 Sorrento Valley Road, Suite. F, San Diego, CA 92121 Phone (858) 793-9911 Fax (858) 259-7170		
DATE	DOCUMENT NAME	SUBMITTAL #	FCC ID	PAGE
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APPENDIX B

RADIATED EMISSIONS

TEST RESULTS

Nemko EESI, Inc.		11696 Sorrento Valley Road, Suite. F, San Diego, CA 92121 Phone (858) 793-9911 Fax (858) 259-7170		
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Nemko EESI, Inc.
FCC, Part 15C, 15.209 & 15.247(b) Radiated Emissions Data Sheet
(3m Open Area Test Site)

Client: Solectek
EUT: Transceiver
Model #: SkyWay (with Maxrad 6dBi antenna)

Conducted by: C. Richard
Date of Test: 12-14-99
Frequency Range: 30-22000MHz

Frequency (MHz)	Spectrum Analyzer Reading at 3m (dB μ V)	Antenna Polarization (vertical or horizontal)	f_0	Amp. Gain & Cable Loss, Distance & Antenna Factor Correction for 3m (dB μ V/m)	Total Interference Level at 3 m (dB μ V/m)	Emission Spec. Limit at 3 m (dB μ V/m)	Difference Margin (dB)
94.480	18.1	v	-	14.0	32.1	43.5	-11.4
106.900	13.0	v	-	15.7	28.7	43.5	-14.8
117.400	4.7	v	-	17.5	22.2	43.5	-21.3
127.750	9.7	h	-	15.2	24.9	43.5	-18.6
133.680	15.0	h	-	15.2	30.2	43.5	-13.3
214.030	3.5	v	-	16.7	20.2	43.5	-23.3
2407.000	38.6	v	f_0	34.0	72.6	131.2	-58.6
4253.975	11.6	v	-	35.9	47.5	54.0	-6.5
4814.000	3.8	v	f_1	37.1	40.9	54.0	-13.1
7221.000	-1.2	v	f_2	44.0	42.8	54.0	-11.2

Notes:

Frequencies located within restricted bands have a reduced emission limit per 15.209

Maxrad 6dBi antenna selected as "worst case" antenna for 15.209 general measurements

All test data conforms to the requirements of CFR47 Part 15.35 (b) in that average detection was used for all measurements over 1 GHZ, and that in no case did the Peak Detected Signal ever exceed the average detected signal by more than 20 dB. The low, middle, and high channels were tested for this antenna, and only the worst case data is shown in the table above.

Test Conditions: Standard radiated emissions test set up on FCC registered open field site. The highest emissions for all antenna heights, polarities, and table orientations are the only emissions recorded.

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Nemko EESI, Inc.
FCC, Part 15C, 15.247(b) Radiated Emissions Data Sheet
(3m Open Area Test Site)

Client: Solectek
EUT: Transceiver
Model #: SkyWay (with Pacific Monolithics 24dBi antenna)

Conducted by 
Date of Test: 12-15-99
Frequency Range: 30-22000MHz

Frequency (MHz)	Spectrum Analyzer Reading at 3m (dB μ V)	Antenna Polarization (vertical or horizontal)	f_0	Amp. Gain & Cable Loss, Distance & Antenna Factor Correction for 3m (dB μ V/m)	Total Interference Level at 3 m (dB μ V/m)	Emission Spec. Limit at 3 m (dB μ V/m)	Difference Margin (dB)
2440.000	43.2	v	f_0	34.2	77.4	142.8	-65.4
4880.000	-4.8	v	f_1	37.2	32.4	54.0	-21.6

Note: Frequencies located within restricted bands have a reduced emission limit per 15.209

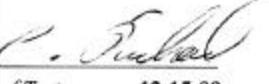
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Nemko EESI, Inc.
FCC, Part 15C, 15.247(b) Radiated Emissions Data Sheet
(3m Open Area Test Site)

Client: Solectek
EUT: Transceiver
Model #: SkyWay (with RSI 22dBi antenna)

Conducted by: 
Date of Test: 12-15-99
Frequency Range: 30-22000MHz

Frequency (MHz)	Spectrum Analyzer Reading at 3m (dB μ V)	Antenna Polari-zation (vertical or horizontal)	f_0	Amp. Gain & Cable Loss, Distance & Antenna Factor Correction for 3m (dB μ V/m)	Total Interference Level at 3 m (dB μ V/m)	Emission Spec. Limit at 3 m (dB μ V/m)	Difference Margin (dB)
2440.000	49.2	v	f_0	34.2	83.4	142.0	-58.6
4880.000	8.6	v	f_1	37.2	45.8	54.0	-8.2

Note: Frequencies located within restricted bands have a reduced emission limit per 15.209

All test data conforms to the requirements of CFR47 Part 15.35 (b) in that average detection was used for all measurements over 1 GHZ, and that in no case did the Peak Detected Signal ever exceed the average detected signal by more than 20 dB. The low, middle, and high channels were tested for this antenna, and only the worst case data is shown in the table above.

Test Conditions: Standard radiated emissions test set up on FCC registered open field site. The highest emissions for all antenna heights, polarities, and table orientations are the only emissions recorded.

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Nemko EESI, Inc.
FCC, Part 15C, 15.247(b) Radiated Emissions Data Sheet
(3m Open Area Test Site)

Client: Solectek
EUT: Transceiver
Model #: SkyWay (with RSI 17dBi antenna)

Conducted by: C. Richard
Date of Test: 12-16-99
Frequency Range: 30-22000MHz

Frequency (MHz)	Spectrum Analyzer Reading at 3m (dB μ V)	Antenna Polarization (vertical or horizontal)	f_0	Amp. Gain & Cable Loss, Distance & Antenna Factor Correction for 3m (dB μ V/m)	Total Interference Level at 3 m (dB μ V/m)	Emission Spec. Limit at 3 m (dB μ V/m)	Difference Margin (dB)
2440.000	56.6	v	f_0	34.2	90.8	138.9	-48.1
4880.000	1.3	v	f_1	37.2	38.5	54.0	-15.5

Note: Frequencies located within restricted bands have a reduced emission limit per 15.209

All test data conforms to the requirements of CFR47 Part 15.35 (b) in that average detection was used for all measurements over 1 GHZ, and that in no case did the Peak Detected Signal ever exceed the average detected signal by more than 20 dB. The low, middle, and high channels were tested for this antenna, and only the worst case data is shown in the table above.

Test Conditions: Standard radiated emissions test set up on FCC registered open field site. The highest emissions for all antenna heights, polarities, and table orientations are the only emissions recorded.

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Nemko EESI, Inc.
FCC, Part 15C, 15.247(b) Radiated Emissions Data Sheet
(3m Open Area Test Site)

Client: Solectek
EUT: Transeiver
Model #: SkyWay (with Tiltek 17dBi antenna)

Conducted by: *C. Cudkowicz*
Date of Test: 12-16-99
Frequency Range: 30-22000MHz

Frequency (MHz)	Spectrum Analyzer Reading at 3m (dB μ V)	Antenna Polarization (vertical or horizontal)	f_0	Amp. Gain & Cable Loss, Distance & Antenna Factor Correction for 3m (dB μ V/m)	Total Interference Level at 3 m (dB μ V/m)	Emission Spec. Limit at 3 m (dB μ V/m)	Difference Margin (dB)
2440.000	49.6	v	f_0	34.2	83.8	138.5	-54.7
4880.000	2.7	v	f_1	37.2	39.9	54.0	-14.1
7320.000	-0.5	v	f_2	44.6	44.1	54.0	-9.9

Note: Frequencies located within restricted bands have a reduced emission limit per 15.209

All test data conforms to the requirements of CFR47 Part 15.35 (b) in that average detection was used for all measurements over 1 GHZ, and that in no case did the Peak Detected Signal ever exceed the average detected signal by more than 20 dB. The low, middle, and high channels were tested for this antenna, and only the worst case data is shown in the table above.

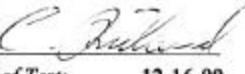
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Nemko EESI, Inc.
FCC, Part 15C, 15.247(b) Radiated Emissions Data Sheet
(3m Open Area Test Site)

Client: Solectek
EUT: Transceiver
Model #: SkyWay (with Conifer 16dBi antenna)

Conducted by: 
Date of Test: 12-16-99
Frequency Range: 30-22000MHz

Frequency (MHz)	Spectrum Analyzer Reading at 3m (dB μ V)	Antenna Polarization (vertical or horizontal)	f_0	Amp. Gain & Cable Loss, Distance & Antenna Factor Correction for 3m (dB μ V/m)	Total Interference Level at 3 m (dB μ V/m)	Emission Spec. Limit at 3 m (dB μ V/m)	Difference Margin (dB)
2407.000	48.0	v	f_0	34.0	82.0	137.5	-55.5
4814.000	8.2	v	f_1	37.1	45.3	54.0	-8.7

Note: Frequencies located within restricted bands have a reduced emission limit per 15.209

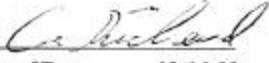
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Nemko EESI, Inc.
FCC, Part 15C, 15.247(b) Radiated Emissions Data Sheet
(3m Open Area Test Site)

Client: Solectek
EUT: Transceiver
Model #: SkyWay (with SuperPass 12dBi antenna)

Conducted by: 
Date of Test: 12-16-99
Frequency Range: 30-22000MHz

Frequency (MHz)	Spectrum Analyzer Reading at 3m (dB μ V)	Antenna Polarization (vertical or horizontal)	f_0	Amp. Gain & Cable Loss, Distance & Antenna Factor Correction for 3m (dB μ V/m)	Total Interference Level at 3 m (dB μ V/m)	Emission Spec. Limit at 3 m (dB μ V/m)	Difference Margin (dB)
2440.000	48.8	v	f_0	34.2	83.0	135.2	-52.2
4880.000	3.0	v	f_1	37.2	40.2	54.0	-13.8
7320.000	-0.5	v	f_2	44.6	44.1	54.0	-9.9

Note: Frequencies located within restricted bands have a reduced emission limit per 15.209

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Nemko EESI, Inc.
FCC, Part 15C, 15.247(b) Radiated Emissions Data Sheet
(3m Open Area Test Site)

Client: Solectek
EUT: Transceiver
Model #: SkyWay (with Tecom 8dBi antenna)

Conducted by: 
Date of Test: 12-16-99
Frequency Range: 30-22000MHz

Frequency (MHz)	Spectrum Analyzer Reading at 3m (dB μ V)	Antenna Polarization (vertical or horizontal)	f ₀	Amp. Gain & Cable Loss, Distance & Antenna Factor Correction for 3m (dB μ V/m)	Total Interference Level at 3 m (dB μ V/m)	Emission Spec. Limit at 3 m (dB μ V/m)	Difference Margin (dB)
2407.000	40.1	v	f ₀	34.0	74.1	132.8	-58.7
4814.000	4.2	v	f ₁	37.1	41.3	54.0	-12.7
7221.000	0.3	v	f ₂	44.0	44.3	54.0	-9.7
9628.000	-1.7	v	f ₃	47.4	45.7	54.0	-8.3

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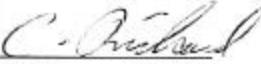
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Nemko EESI, Inc.
FCC, Part 15C, 15.247(b) Radiated Emissions Data Sheet
(3m Open Area Test Site)

Client: Solectek
EUT: Transceiver
Model #: SkyWay (with Hirschmann 11dBi antenna)

Conducted by: 
Date of Test: 12-16-99
Frequency Range: 30-22000MHz

Frequency (MHz)	Spectrum Analyzer Reading at 3m (dB μ V)	Antenna Polarization (vertical or horizontal)	f_0	Amp. Gain & Cable Loss, Distance & Antenna Factor Correction for 3m (dB μ V/m)	Total Interference Level at 3 m (dB μ V/m)	Emission Spec. Limit at 3 m (dB μ V/m)	Difference Margin (dB)
2407.000	38.7	v	f_0	34.0	72.7	134.5	-61.8
4814.000	5.1	v	f_1	37.1	42.2	54.0	-11.8
7221.000	3.1	v	f_2	44.0	47.1	54.0	-6.9

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